

What is claimed is:

1 1. A cathode ray tube apparatus comprising:

2 a cathode ray tube that includes a glass bulb formed from
3 a panel and a funnel connected together and an electron gun
4 housed within the glass bulb, and is operable to emit an electron
5 beam from the electron gun toward a phosphor screen formed on
6 an inner surface of the panel;

7 a deflection yoke including a horizontal deflection coil
8 and a vertical deflection coil, and operable to scan the electron
9 beam horizontally and vertically over the phosphor screen;

10 a velocity modulation coil arranged outside the cathode
11 ray tube, and operable to modulate a velocity at which the
12 electron beam is scanned horizontally; and

13 a magnetic member arranged to surround an outer
14 circumference of the cathode ray tube with the velocity
15 modulation coil positioned therebetween, so as to cover a
16 position corresponding to a space between a first electrode
17 and a second electrode of the electron gun that are aligned
18 in an axial direction.

1 2. The cathode ray tube apparatus according to Claim 1, wherein

2 the magnetic member has a looped shape and is inserted
3 over the cathode ray tube.

1 3. The cathode ray tube apparatus according to Claim 1, wherein

2 the first and second electrodes generate a main lens for

3 converging the electron beam onto the phosphor screen.

1 4. The cathode ray tube apparatus according to Claim 1, wherein
2 the velocity modulation coil is spaced apart from the
3 horizontal deflection coil in the axial direction, so as to
4 avoid occurrence of ringing in an image formed on the phosphor
5 screen caused by interference between magnetic fields generated
6 by the velocity modulation coil and by the horizontal deflection
7 coil.

1 5. The cathode ray tube apparatus according to Claim 2, wherein
2 the magnetic member is made of sintered Ni-Zn ferrite.

1 6. The cathode ray tube apparatus according to Claim 2, wherein
2 the magnetic member is made of resin mixed with Ni-Zn
3 ferrite magnetic powder.